

European Community Declaration of Conformity

Issued in accordance with the Marine Equipment Directive (MED)

This to certify that in compliance with Council Directive 96/98/EC of 20 December 1996 on marine equipment, as amended by Commission Directives 2011/75/EU of the European Parliament and of the Council:

**Kelvin Hughes Ltd
Voltage
Mollison Avenue
Enfield, EN3 7XQ
England**

Declares that the products listed in Annex A conform to type as required by the above Directive as evidenced by the Conformity Route below:

EC Type Examination Module B certificate No BABT-MED001080 issued by Notified Body TÜV SÜD BABT (No 0168) expires 19th September 2015.

Plus

EC Module D Certificate of Conformity No MED 1100013 issued by Notified Body Lloyds Register (No 0038)

MED Annex A.1	Item No	4.35
	Item Designation	Radar equipment CAT 2

MED Annex A.1	Item No	4.38b
	Item Designation	Radar equipment CAT 2 with chart option

Kelvin Hughes Product Description	MantaDigital X & S Band CAT2 Marine Radar and CAT2C Marine Chart Radar Systems
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Standards Applicable	Resolution MSC.278(VIII), Resolution MSC.191(79), Resolution MSC.192(79), Resolution A694(17) IEC 62388:2007, IEC 60945:2002 IEC 62288:2008 IEC 61162-1:2010 IEC 61162-2:1998 ITU Recommendation M.1177-3:2006
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Annex A – Product List

Product Identity	Description
CAE-A12-20	25kW X Band Transceiver / Turning Mech (24rpm)
CAE-A30-20	10kW X Band Transceiver / Turning Mech (24rpm)
CTX-A8	25kW X Band Transceiver – Bulkhead Mounting
CTX-A9	Mk 7 30kW 30kW Transceiver– Bulkhead Mounting
FSD-A10	Dual DNC Unit
FSD-A13	Network Audio & Video Control Unit
FSD-A198	Serial Interface Module
GTX-A16	Manta 30kW Transceiver / Turing Mech
GTX-A24	Drive Control Unit
IT-SM-8x-AV-LCD	NTI Audio & Video Switch Matrix (x channel)
LPA-A1	3.9m S Band Low Profile Antenna
LPA-A13	1.3m X Band Low Profile Antenna
LPA-A19	1.9m X Band Low Profile Antenna
LPA-A25	2.5m X Band Low Profile Antenna
LPA-A3	3.9m S Band Low Profile Antenna
MDD-A100	MantaDigital Trackerball & Pencil Tray
MDD-A101	MantaDigital Trackerball & Keyboard
MDD-A102	MantaDigital Trackerball & Control Panel
MDD-A110	MantaDigital Trackerball
MDD-A1-20	MantaDigital 20" Pedestal Display and Radar Processor
MDD-A1-22	MantaDigital 22" Pedestal Display and Radar Processor
MDD-A12	MantaDigital Radar Interswitch Unit
MDD-A20-20	MantaDigital 20" Console Display
MDD-A20-22	MantaDigital 22" Console Display
MDD-A30-20	MantaDigital 20" Desktop Display (incorporating MDD-A101)
MDD-A30-22	MantaDigital 22" Desktop Display (incorporating MDD-A101)
MDD-A9-20	MantaDigital 20" Pedestal Display and Radar Processor inc Trackerball
MDP-A1	MantaDigital Navigation Processor
MDP-A9	MantaDigital Radar Processor
NNR-A18	Ergonomic Trackerball (Ergopod right handed)
NNR-A18-2	Ergonomic Trackerball (Ergopod left handed)
NNR-A66	Transmitter Interface Unit
ZM-2007	Manta Display firmware
ZM-2008	Manta Systems Interface firmware
ZM-2114	Manta Transmitter Interface firmware
ZM-2144	MantaDigital core software
ZM-2160	Manta Transmitter Interface FPGA

Issued for and on behalf of Kelvin Hughes Ltd.

Signed:  on 07-11-2012

N. Richards
Quality Manager